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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Bruce V. Schwartz, et al.  
Serial No.: 09/839,858  
Filing Date: April 20, 2001  
Title: Reducing Perceived Latency in  
Servicing User Requests on  
Low-Bandwidth  
Communications Channels

Art Unit: 2152

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**PRELIMINARY AMENDMENT**

Sir:

Preliminary to the examination of this application, please amend the application as shown by revision marks on enclosed pages. The results obtained by entering this amendment are shown in a clean form on a separate page enclosed herewith.

Respectfully submitted,

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**Certificate of Mailing Under 37 CFR 1.8**

I certify that this Preliminary Amendment and any enclosed materials are being deposited with the United States Postal Service on September 6, 2001 with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, Washington, DC 20231.

David N. Lathrop

Enc. Page showing revision marks to page 1 of specification  
Amended paragraph in clean form

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**CROSS-REFERENCE TO A RELATED APPLICATION**

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A1 This application is a continuation of U.S. non-provisional application number 08/995,683 filed December 22, 1997, which claimed the priority of U.S. provisional application number 60/052,394 filed July 11, 1997. The contents of those applications, including a microfiche appendix, are incorporated herein by reference in their entirety.

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
APPLICATION FOR UNITED STATES PATENT**

Reducing Perceived Latency in Servicing User Requests  
on Low-Bandwidth Communication Channels

Inventors: Bruce V. Schwartz  
Stephen S. Boyle  
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Bruce K. Martin, Jr.

**CROSS-REFERENCE TO A RELATED APPLICATION**

This application is a continuation of U.S. non-provisional application number 089/995,683 filed December 22, 1997, which claimed the priority of U.S. provisional application number 60/052,394 filed July 11, 1997. The contents of those applications, including a microfiche appendix, are incorporated herein by reference in their entirety.

**TECHNICAL FIELD**

The present invention relates generally to devices and methods for interacting with hypermedia servers connected to networks. More particularly, the present invention pertains to structures and methods of system interactions arranged such that practical access to hypermedia servers is available to a wider range of devices such as wireless telephones.

**BACKGROUND ART**

Although networks like the Internet have been in existence for years, they have not been a popular medium of information exchange until very recently. The recent explosive growth in usage of the Internet, for example, is due in large part to the development of devices and methods that simplify the actions a user must take to access multimedia information stored by network servers. One significant development is the use of hyperlinks which allows disparate pieces of information to be organized in nonsequential ways and which allows a user to easily navigate among the linked information. By assigning a unique identifier to each distinct piece of multimedia information available throughout a network, information can be readily accessed without regard to where it is stored. Network clients and servers participating in such a "hypermedia" network are referred to herein as hypermedia clients and hypermedia servers, respectively.